

INTERNATIONAL SEARCH REPORT

International App' --- on No

PCT/IB 03/05231

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L12/56 H04Q7/38 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 052800 A (GROENBERG PETRI ;NOKIA CORP (FI)) 4 July 2002 (2002-07-04) page 5, line 23 -page 6, line 5 page 7, line 29 - line 35 page 8, line 24 - line 27 page 11, line 3 - line 18 page 14, line 7 - line 11 abstract; claims 1,7,8; figures 2,4-6	1,2,4-14
Y	---	3,23-34

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

21 June 2004

Date of mailing of the international search report

13.07.2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

NABIL SEBAA/MN

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02 093866 A (BYTEMOBILE ;CHOU JIM (US); RAMCHANDRAN KANNAN (US)) 21 November 2002 (2002-11-21) page 3, line 22 -page 4, line 1 page 8, line 1 - line 12 page 9, line 2 - line 8 page 9, line 24 -page 10, line 8 page 10, line 17 -page 11, line 8 page 12, line 11 - line 21 abstract; figures 1B,3A,3B ---	3,23-34
A	US 2002/080721 A1 (LEMKE DAVID ET AL) 27 June 2002 (2002-06-27) abstract ---	1-14, 23-34
A	US 6 252 851 B1 (NARVAEZ PAOLO L ET AL) 26 June 2001 (2001-06-26) abstract; claim 1 ---	1-14, 23-34
A	EP 0 948 168 A (ERICSSON TELEFON AB L M) 6 October 1999 (1999-10-06) paragraph [0034] - paragraph [0035] abstract; claim 1 ---	1-14, 23-34
A	WO 00 51313 A (LAIHO KEIJO ;ERICSSON TELEFON AB L M (SE)) 31 August 2000 (2000-08-31) claim 1; figure 1 abstract ---	15-22
E	WO 2004 034726 A (CHEMIAKINA SVETLANA ;D ANTONIO LUIGI (IT); ERICSSON TELEFON AB L M) 22 April 2004 (2004-04-22) page 4, line 9 - line 25 page 5, line 1 - line 15 page 8, line 1 - line 27 claims 1-9,19 abstract -----	15-22

INTERNATIONAL SEARCH REPORT

International Search Report No.
PCT/ 03/05231

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-14,23-34

Claims 1-14, 23-34 relate to methods for controlling the transmission flow rate and the transcoding rate of a media gateway, in a data bit transfer session from a serving entity (media gateway or application server) to a client, whereas the session involves transmission of data bits over a wireless communication link. In the methods of independent claims 1 and 23 a radio control node is provided to establish flow rate parameters relating to the wireless link by resolving addressing between the radio control node and the serving entity (media gateway); sending rate control parameters; generating an initial rate control message and sending it to the serving entity (media gateway) to set initial rates; monitoring the wireless link and finally sending new flow (transcoding) rate parameters for an update of the transmission rate in the serving entity (media gateway).

2. Claims: 15-22

Claims 15-22 relate to a method for negotiating the transmission flow rate in a data bit transfer session from a first mobile entity to a second mobile entity, whereas the session involves transmission of data bits over at least one wireless communication link. In the method, a first and second radio control node, each associated with a respective mobile entity are provided and the addressing between the two nodes is resolved. In addition, rate control parameters are exchanged between the radio control nodes; and the parameters are matched to obtain an actual transmission rate. Further, an indicator of the actual bit transmission rate is transmitted to the mobile entities so that the transmission rate can occur at same bit rate.

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 02052800	A	04-07-2002	FI CN EP WO US	20002848 A 1478345 T 1344352 A1 02052800 A1 2004057378 A1		23-06-2002 25-02-2004 17-09-2003 04-07-2002 25-03-2004
WO 02093866	A	21-11-2002	WO US	02093866 A2 2003018796 A1		21-11-2002 23-01-2003
US 2002080721	A1	27-06-2002	WO WO US	02052427 A1 02052768 A2 2002083185 A1		04-07-2002 04-07-2002 27-06-2002
US 6252851	B1	26-06-2001	US	6246687 B1		12-06-2001
EP 0948168	A	06-10-1999	EP AU AU CA CN WO EP JP	0948168 A1 752032 B2 3602999 A 2326488 A1 1303557 T 9950998 A1 1070407 A1 2002510904 T		06-10-1999 05-09-2002 18-10-1999 07-10-1999 11-07-2001 07-10-1999 24-01-2001 09-04-2002
WO 0051313	A	31-08-2000	FI AU WO JP	990398 A 2550200 A 0051313 A2 2002538675 A		25-08-2000 14-09-2000 31-08-2000 12-11-2002
WO 2004034726	A	22-04-2004	WO	2004034726 A1		22-04-2004